Amateur Radio Newsline(tm) Report 1558 - June 22, 2007

Amateur Radio Newsline report number 1558 with a
release date of Friday, June 22, 2007 to follow in 5-4-3-2-1.

The following is a Q-S-T. The RSGB restructures
to welcome digital repeaters, 6 meters opens for
some good D-X and the ARRL says that Congress may
mandate an investigation of B-P-L
interference. Find out the details on Amateur
Radio Newsline(tm) report number 1558 coming your way right now.

(Billboard Cart Here)

**

WORLDBEAT - UK: THE DIGITAL WORLD IS HERE

The world of digital ham radio comes another step
closer to reality. This as the Radio Society of
Great Britain is says that digital is the future
of ham radio and its restructuring some of its
committees so as to be ready. Jeramy Boot, G4NJH, has the details:

--

A study of the work of the Data Communications
Committee and the Repeater Management Committee
has revealed increasingly common ground,
especially where internet gateways and internet
linking to repeaters are concerned.

Advances are also being made towards the
introduction of digital modes such as D-Star and
APCO25 that amongst other newer technologies can
carry both voice and data streams.

With this in mind it has been agreed that a new
committee based on the Repeater Management
Committee structure and to be known as the
Emerging Technology Co-ordination Committee will
replace the DCCand RMC with immediate affect. The
new committee will be chaired by John McCullagh,
GI4BWM, with Iain Philipps, G0RDI, as
Vice-Chairman. Other committee members will
include current Regional Repeater Managers and
Steve Morton, G8SFR, who will continue to
co-ordinate Internet Gateway applications.

I'm Jeramy Boot, G4NJH and you are listening to the Amateur Radio Newsline.

--

What this means is that U-K hams involved in both
digital and analog relay communications or

transitioning from analog to digital now have one central base of knowledge to work with. It also puts the Radio Society of great Britain at the forefront of political leadership in the U-K as the changeover takes place. (GB2RS)

**

RESCUE RADIO: VK HAMS RESPOND AS FLOODS HIT

Hams from several Australian provinces have responded in the wake of severe weather and flooding that has hit the North Queensland area. Graham Kemp, VK4BB, of the WIA News, has the details:

--

Mal VK4MAL is currently working with the Red Cross Counter-Disaster division in the flooded areas of the New South Wales Central Coast and Hunter Region.

Mal VK4MAL is Counter-Disaster Co-ordinator for Red Cross in North Queensland and he and hundreds of other volunteers were shipped in from across VK to provide some help for flood weary local volunteers and residents of the disaster zone.

VK2ATZ/portable the Westlakes AR Club were in the thick of things, but were still able, somehow, to score a vantage point to see the container ship which was washed ashore at Nobby's Beach on the Friday morning.

Saturday Westlakes Amateur Radio Club was open....But not for usual business. It was open to the few that braved the weather and answered the calls for help to clean up the debris from the horrible weather suffered the previous night.

Some helping included VK2YPW, VK2AFZ, VK2ZM and Keith VK2PKT, Paul VK2BPL, and Richard VK2FRKO also John VK2FJKG

Then when the Hunter River in Maitland looked like breaking its banks on Sunday, the Volunteer Rescue Association wasted no time in securing the specialist communications skills of WICEN (NSW).

Eight operators from the Hunter Region were deployed at Rutherford, and they were tasked with passing intelligence reports to the services involved, along with monitoring and reporting the river levels at 15 minute intervals. This involved three teams, two at the gauges and one at the control centre; all were alert and busy throughout the night and into the next morning.

As well as this, teams were on stand-by in both the Sydney North and Central Coast Regions, but as the floods abated they were not required; it is worth noting that although members in the Central Coast Region also suffered from the storm, some were still able to respond. Other VRA squads such as CREST and Cave Rescue were also involved.

I'm Graham Kemp, VK4BB, of the WIA News reporting for the amateur Radio Newsline.

--

The President of the Volunteer Rescue Association is Ray Gill. He thanked the Australian ham community for its prompt emergency service response.

**

THE BPL FIGHT: ARRL REPS HAM RADIO ON BPL TO ITU

A major meeting of the International Telecommunications Union that could help determine the future of ham radio world-wide is taking place in Switzerland. It involves BPL. Rob Mt. Barker, VK5MM, is here with the rest of the story:

--

ARRL Chief Executive Officer and IARU Secretary David Sumner, K1ZZ, have been representing the IARU at a meeting of ITU-R Working Party 1A in Geneva, Switzerland.

Working Party 1A is responsible for spectrum engineering techniques within Study Group 1 (spectrum management) and has been working on a document that may eventually become what's called a "preliminary draft new report" on the impact of power line telecommunications (PLT, what we call BPL on this side of the Pacific) on radiocommunication systems operating below 80 MHz.

Of course, the IARU's interest is in ensuring that the report accurately reflects the sensitivity of the amateur services to interference from this source.

Also meeting at about the same time (June 12-20), ITU-R Working Party 8A, which is responsible for most of the land mobile services, plus the amateur and amateur-satellite services. WP 8A hopes to complete work on a "draft new handbook for the amateur and amateur-satellite services" to be published by the ITU.

I'm Rob, VK5MM

--

More on the outcome of these meetings in future
Amateur Radio Newsline reports. (WIA News, ARRL)

**

THE BPL FIGHT: CONGRESS MAY ORDER INVESTIGATION OF IJNTERFERENCE

The ARRL says that the United States Senate may
investigate Broadband Over Powerline's's
interference potential to Amateur Radio. This
after Senator Mark Pryor files a bill calling on
the Federal Communications Commission to conduct
a study on the interference caused by broadband
Internet transmission over power distribution
systems to customers homes. Amateur Radio
Newsline's David Black, KB4KCH, is here with more:

--

Senator Mark Pryor of Arkansas is a member of the
Senate's Committee on Commerce, Science, and
Transportation. If the measure he introduced
gains the needed support, then Senate Bill 1629
would call for the same studies to be performed
as does House Bill 462. That measure was
introduced on January 12th by Rep Mike Ross of
Arkansas. Both would require the FCC to conduct
and submit to that committee and to the House of
Representatives Committee on Energy and Commerce
a report on a study of interference potential of
systems for the transmission of broadband Internet services over power
 lines.

According to the ARRL, there are to be four
required areas of inquiry. First is the
variation of field strength of BPL service
signals with distance from overhead power lines,
and a technical justification for the use of any
particular distance extrapolation factor.

Then, the depth of adaptive, or 'notch,'
filtering for attenuating normally permitted BPL
service radiated emission levels that would be
necessary and sufficient to protect the
reliability of mobile radio communications.

Also required would be a technical justification
for the permitted, radiated emission levels of
BPL signals relative to ambient levels of man-made noise from other sources.

Lastly such a report would require the FCC to
provide options for new or improved rules related

to the transmission of BPL service that, if implemented, might prevent harmful interference to public safety and other radio communications systems. This is something that the FCC has been reticent to do since it embraced B-P-L technology several years ago.

For the Amateur Radio Newsline, I'm David Black, KB4KCH, at the South-East bureau in Birmingham, Alabama,

--

The ARRL is very thankful for this turn of events in the BPL struggle. League President Joel Harrison, W5ZN, said that the League is grateful for Senator Pryor's support. He added that the Senator's recognition of Amateur Radio's role in emergency communications and public safety is also greatly appreciated. (ARRL)

**

Break 1

 From the United States of America, We are the Amateur Radio Newsline, heard on bulletin stations around the world including the N7VGS repeater serving Star Valley Wyoming

(5 sec pause here)

**
ON THE AIR: 6 METERS TURNS SUMMER HOT

Six meters is showing signs of being the V-H-F band of choice for this summers D-X season. We have more in this report:

--

That's right Don. 6 meters has been the band of choice of VHF DX enthusiasts, with contacts like this one becoming more and more commonplace.

--

Sound of VE3TMG working Hawaii: Hear it in the MP3 version of the newscast downloadable at www.arnewsline.org

--

That's Terry Greenwood, VE3TMG, in Windsor, Ontario, Canada working Fred Benardella, KH6FI, Mountain View, Hawaii, recorded on June 18th. That's a path across land and sea of close to 4500 nautical miles.

But hams in the U-S-A are not the only ones experiencing long haul contacts on the Magic Band. Also on the 18th, Ev Tupis, W2EV, in Holley New York reported over the V-H-F Reflector that he was experiencing multi-hop from to EA8 on 6m. Ev also said that there were reports of 2 meter E skip contact taking place between Ohio to Newfoundland. A bit later, John Fridenstine, W8PAT, in Oberlin, Ohio, posted that worked or heard all continents in a 12 hour period. For him it was South America in the morning, Europe, Afirca and Oceania in the a afternoon and Asia on EME in the evening.

We don't have any recordings of those, but we do have of a truly rare south to north 6 meter station. Heres Octavio Miranda, YN2N, in Nicaragua trying to contact a W 5 station on what was likely Trans-Equatorial propagation:

--

Sound of YN2N: Hear it in the MP3 version of the newscast downloadable at www.arnewsline.org

--

The sation he was trying to work and eventually did contract was Pat Dyer, WA5IYX, in San Antonio, Texas. Pat tells Amateur Radio Newsline that while not the greatest signal, Miranda was the first Nicaraguan that he has heard or worked in his 43 years operating 6 meters. The signals were only 5 by 5 at WA5IYX but YN2N gave Pat a 10 db over S 9 report.

Getting on 6 meters is no longer very expensive. The primary D-X mode is Upper Sideband. The primary calling frequency is 50.125 Mhz and for casual operation a simple dipole with a total length of 108 inches will suffice. And with even that simple a set-up you never know what you might work or hear.

--

Sound of V26HS: Hear it in the MP3 version of the newscast downloadable at www.arnewsline.org

--

For the Amateur Radio Newsline, I'm Bill Pasternak, WA6ITF, with the FT-847 tuned to 50.125, at the studio in Los Angeles.

--

For the latest, up to the minute 6 meter D-X news
take your web browser to the 6 Meter Prop
Logger. Its in cyberspace at http://www.dxworld.com/50prop.html

Also, if you operate on 6 meters, be sure to
switch it to A-M mode and tune up to 50.5 MHz now
and again. That's where a lot of old timers
using 1950's vintage gear hang out and you never
know who you might hear. (ARNewsline(tm))

**

ENFORCEMENT NEWS: FBI INVESTIGATING PHONY REPORTS TO THE NEWS

The FBI has entered into an investigation
surrounding bogus severe weather reports e-mailed
to the National Weather Service. The false
information has caused the to issue unnecessary
warnings that have taxed the resources of a number of communities.

The phony reports were sent to the NWS over its
Web page. Investigators have already traced the
Internet Protocol address of the computer sending the false reports.

Jeff Lanza,is the special FBI agent in charge of
the investigation. He says that the effort to
track down the source of bogus information to the
weather service could be the first in the
U.S. He adds that providing false information to
the federal government is punishable by up to
five years in jail. (Tech OnLine)

**

ENFORCEMNENT TECHNOLOGY: NEW CELLPHONE SENSORS

The Department of Homeland Security has
reportedly launched an initiative asking the
wireless industry about the potential for
equipping a new generation of cellular telephones
with technology. This, to scan and detect
harmful compounds in the environment and
automatically relay the readings to a central
monitoring point. The concept, known as
"Cell-All," is said to have attracted the
interest of several companies, and partnerships
with handset manufacturers are being discussed. More is on-line at
http://public.cq.com/docs/hs/hsnews110-000002524221.html   (CGC)

**

NAMES IN THE NEWS: FCC CHAIRMAN AGAIN SAYS YES TO CABLE A LA CARTE

Federal Communications Commission Chairman Kevin
Martin has renewed a long simmering debate over
"a la carte" programming at a recent cable

industry gathering in Las Vegas, Nevada. According to news reports, Martin told the audience at the annual "Cable Show" that consumers should be able to purchase what they want without being forced to buy what they don't.

Martin has supported implementing "a la carte" service, where consumers could choose and pay for individual channels, rather than purchase them in bundles from their cable companies. He said the issue was increasingly important since the price for "expanded basic" cable has doubled since 1996. (Published reports)

**

NAMES IN THE NEWS: HAM POLICE OFFICER INJURED IN THE LINE OF DUTY

A Southern California ham well known for his work in helping to remove repeater jammer Jack Gerritsen, the ex-KG6IRO, from the airwaves has been injured in a traffic accident. This with word that Los Angeles County Deputy Sheriff Burton Brink, N6USO, was hurt in an on-duty traffic collision the morning of June 6th.

The accident occurred when a driver tried to exit the carpool lane on the Interstate 10 freeway. Driving in a carpool lane requires two or more occupants in the vehicle. This driver was alone and according to a report from the San Gabriel Valley Radio Club, a California Highway Patrol unit was ahead when the driver tried to avoid a ticket for a carpool violation. The driver did not check for a clear lane and collided with Brink who was on motorcycle patrol.

N6USO was admitted to the County USC Medical Center in Los Angeles where it was determined that he had sustained multiple rib fractures, a punctured lung, and lacerated spleen, as well as associated road rash. His injuries, though serious, do not appear to be life threatening.

A career law enforcement officer, Burton Brink has been with the Los Angeles County Sheriff's Department since 1989. Prior to that he was an Officer with Monterey Park Police Dept. from 1982 to 1989, and an Arcadia Police Explorer Cadet from 1977 to 1982.

N6USO is also the owner of the 145.440 MHz repeater located on Southern California's Sunset Ridge. This was one of many repeaters targeted for jamming and harassment by Jack Gerritsen during the years prior to his latest arrest and 7 year jail sentence that he is currently serving. A trained investigator, Brink stood his

ground against Gerritsen and is among those credited as helping to bring Gerritsen before the bar justice.

Get well wishes can be sent to Burton Brink, N6USO, at his callbook address. (SGVARC, WA6ILQ)

**

NAMES IN THE NEWS: CATHERINE DEATON TO RETIRE FROM THE FCC

The FCC employee also generally credited with sending radio jammer Jack Gerritsen to prison will be retiring from the Commission on August 3rd. This with word that Catherine Deaton, who heads FCC Enforcement Bureau's Los Angeles field office will be leaving government service following 40 years that includes 10 years as an undercover narcotics agent and the past 27 years working at the FCC.

Bob Gonsett, W6VR, who writes the CGC Communicator calls Deaton a breath of fresh air for the L.A. field office. In his June 19th edition, he noted that ubder her guidance the Los Angeles bureau's door has been open to all inquiries and concerns, the attitude of the office has been positive and the results impressive.

After August 3, Deaton plans to do a bit of traveling, help her daughter in her medical services business and fully exercise her gym membership. If you'd like to send her your best wishes, e-mail her at Catherine.Deaton@fcc.gov (CGC)

**

NAMES IN THE NEWS: CONGRESS TO HONOR "MR WIZARD"

A follow up to our story last week on the passing of television's first ever teacher of science and technology. On Monday, June 18th the U.S. House of Representatives honored Don Herbert, better known as "Mr. Wizard," in a resolution passed on the House floor.

Representative Vernon Ehlers of Michigan co-sponsored the resolution to honor Herbert, who died of cancer at the age of 89. In his sponsorship statement Ehlers said that the "Mr. Wizard" show laid the groundwork for the educational television genre that later spawned cable channels devoted to science, like the Discovery Channel. The show also created Mr. Wizard Science Clubs nationwide with 5000 such groups operating by 1995.

Ehlers stated that as a child, he didn't have TV, but he read science magazines his sister gave him that she would get from her high school

science class. Ehlers said that he would then perform his own home experiments from the magazines. He closed by noting that he was happy to co-sponsor Don Herbert's official recognition by the Congress of the United States. (Published Reports)

**

BREAK 2

This is ham radio news for today's radio amateur. From the United States of America, We are the Amateur Radio Newsline with links to the world from our only official website at www.arnewsline.org and being relayed by the volunteer services of the following radio amateur:

(5 sec pause here)

**

ON THE AIR: W8HC TO COMMEMORATE MARCONI

2007 marks the centennial of those first signals generated from Marconi's historic station in the United Kingdom. To commemorate this event, as well as radio's first-ever commercial venture, Hal Turley, W-8-H-C has announced a special amateur radio operation from two locations central to Marconi as a pioneer in wireless technology.   Once again, Jeramy Boot, G4NJH, is in Nottingham, with more:

--

On Saturday and Sunday, August 4 and 5, Turley will operate portable G I from from Ballycastle. He will be also taking part in the annual Marconi Festival at Ballycastle with the Marconi Radio Group's special event station MN0MRG on Sunday, August 5th. On Monday, August 6, Hal will ferry over to Rathlin Island and operate from East Lighthouse.

Leaving Northern Ireland, Hal will arrive in Clifden on Wednesday, August 8 where he will operate portable E I at the Derrygimla site on August 9th and 10th. It is hoped that some operating time can also occur from nearby Letterfrack, site of an ancillary receive station built in 1912 to allow for full duplex operation of the transatlantic signals.

Contacts will be confirmed via Logbook to the World and special QSLs from each of these historic Marconi locations will be printed and sent via the Global QSL system at www.globalqsl.com. In addition, a specially

designed certificate will be issued to those
stations making contact with both GI and EI
operations from either Ballycastle or Rathlin and Derrygimla or Letterfrack.

I'm Jeramy Boot, G4NJH

--

In keeping with the historic accuracy of the
original Marconi transmissions, all QSOs from
these locations will be CW only. (GB2RS)

**

EMERGING TECHNOLOGY: MICROWAVE SDR RADIO BEING DEVELOPED

Radio amateurs interested in the microwave bands
may find the Microwave Software Defined Radio
project interesting. Its goal is to provide a
transceiver operating on the 144, 422, 1268, 2400
MHz and above bands, covering the whole of each
band. Full duplex cross-band operation is also
planned specifically for satellite use. More
details are on line at the Microwave Software
Defined Radio website. Its in cyberspace at
http://uwsdr.berlios.de   (G8UBN for the uWSDR team)

**

HAM RADIO IN SPACE: JPL CONGRATULATES AMSAT-DL ON VOYAGER 1 INTERCEPT

The Flight Team that oversees NASA's Voyager One
deep space probe has congratulated AMSAT Germany
on its reception of a signal from the
spacecraft. In March 2006, the signal from
Voyager 1 was received by the AMSAT D-L team
using the 20 meter dish in Bochum.

Voyager 1 is the furthest object away from earth
to be built by humans. As a token of their
collective appreciation, the controllers not
only confirmed the reception report. They also
sent Amsat Germany a photo of the Voyager
Flight   That picture can be found on line at
http://www.amsat-dl.org//index.php?option=com_content&task=view&id2
&Itemid
(Southgate, AMSAT-DL)

**

HAM RADIO IN SPACE: ME AND MY BABY - MONITOR

An elementary school science teacher in this
Chicago suburb didn't have to turn on the news
for an update on the now concluded STS 117 space
shuttle mission. This was because her baby

monitor decided to become a shuttle mission video delivery service of its very own.

Beginning on Sunday, June 10th, one of the two channels on Natalie Meilinger's baby monitor began picking up video from inside the space shuttle Atlantis. Summer Infant Products which manufactured the remote monitoring system said that it is investigating what could be causing the video to appear on Meilingers unit but is so far baffeled. Company Communications Director Cindy Barlow said that she never heard of anything similar happening.

Meantime, NASA had its say as well. Spokesperson Brandi Dean issued a statement denying that the signal Meilinger was seeing was not coming directly from the shuttle. She noted that the live video is available on NASA's Web site, so it's possible the monitor was picking up a signal from some localized rebroadcast.

So far it does not look as if any local hams or ham radio retransmission of NASA video is responsible. More likely it's a neighbor with one of those in home television rebroadcast units used to send cable or satellite delivered television to other rooms. (Published reports)

**

HAM RADIO IN SPACE: THE FLORIDA AMSAT NET WANTS SPEAKERS

The Florida AMSAT net is looking for satellite operators who are willing to be a guest speaker on their Thursday night net. The repeater network used in this network covers half the state of Florida. An echolink connection is available for all others. Please contact Drew Glasbrenner by e-mail to ko4ma@amsat.org if you are interested. (ANS)

**

WORLDBEAT - UK: HAM SCOUTING CLUB GETS GRANT

The U-K based Chesterfield and District Scouts Amateur Radio Club has recently received a National Lottery Grant from that bnations Awards for All Fund. The club was given the equivalent of $10,000 that it will use to purchase new radio equipment, computers, a portable generator and a mini marquee.

The club intends to support members who are Scouts in gaining their amateur radio licenses and in development of their skills. They also want to develop Amateur Radio Direction Finding techniques by purchasing equipment which will

allow the club to demonstrate amateur radio within the scouting community in Derbyshire. (Southgate)

**

WORLDBEAT- SWEEDEN: THE ANNUAL SAQ ALTERNATOR ON JULY 1

The annual transmission on 'Alexanderson Day' with Sweden's Alexanderson alternator on the VLF frequency of 17.2 kHz will take place Sunday July 1st. The operation takes place at 09:00 U-T-C and will be repeated at 13:00 UTC. There will also be activity on amateur radio frequencies with the call SK6SAQ.

QSL cards are appreciated. They can go direct or via the Swedish Amateur Association QSL bureau. More is on-line at www.alexander.n.se (Southgate)

**

WORLDBEAT - USA: CARF ESTABLISHES ECHOLINK NET

Back in the United States, word from Lloyd Colston, KC5FM, that t the Christian Amateur Radio Fellowship has established a new network on Echolink. Using the K6JWN conference server number 127901, the net meets Saturday at 1400 UTC. Christian hams from around the world are invited to participate. More is on-line at www.carf.net (KC5FM)

**

DX

In DX, word from O-P-D-X that DL7DF will be leading a DXpediton team to East Africa. The group plans to be active as 9U0A between September 26th and October 9th. Operation will be on 160 through 6 meters using CW, SSB, SSTV and digital modes. There will be a special emphasis on the lower bands and digital operations Pilot station for this DXpedition is Bernd, DF3CB. QSL via DL7DF, either direct or by the German QSL Bureau.

Approval has been granted for the use of the Special Prefix VR10 in addition to VR2 for Hong Kong radio amateurs. This from July 1st of this year through June 20th 2008 to celebrate the 10th anniversary of Hong Kong's reunification with China. More details are available in the OFTA letter for HongKong Radio Amateurs, which can be found at www.ofta.gov.hk/en/amateur/ama-cir200706.pdf.

Lastly, the Southgate News says that the Scarborough Reef Dxpedition team has uploaded a partial log containing QSOs for those DXers who

supported the BS7H operation to the ARRL Loogbook to the World website. The group says that this is a special 'Thank You' to those who made the effort to support their operation. The team adds that there will be additional periodic uploads Loogbook to the World as QSL'ing proceeds. A full upload will be done as soon as the bulk of the direct QSLs are answered. Direct cards are expected to start going out in early July. (Above from various DX news sources)

**

HAM RADIO ON THE WEB: REPEATER HISTORY - A VICARIOUS TRIP BACK TO WR6ABE

If you want to take a look back at repeater technology of the mid-1970's, have we got a website for you. Actually the website is YouTube.com and its where Steve Jensen, W6RHM, has posted some great video transfers shot on film in 1976 by his father, the late Bob Jensen, W6VGQ.

The four short movie clips feature a trip to California's original Mount Wilson two meter repeater, WR6ABE. Even better, the travelogue is hosted by the repeater's creator, Burt Weiner, K6OQK:

--

K6OQK audio here. Hear it in the MP3 version of the newscast downloadable at www.arnewsline.org

--

Weiner narrates from two locations. Both the actual repeater site overlooking the Los Angeles basin and what you just heard from the control point at his former home. As a bonus, you get to meet many of the systems users from that era who helped to make this obscure repeater into a legend of the golden age of ham radio relay station development.

Its truly a trip back in time to an era when tubes were still king and repeaters used a lot of them. Look for it at:

http://www.youtube.com/watch?v=Xb7r3_n1wBo
http://www.youtube.com/watch?v=_pjJfz8RHsg
http://www.youtube.com/watch?v=Ik6LUs60S9c
http://www.youtube.com/watch?v=u7Udq98j0EM)

(Information supplied by W6RHM)

**

NEWSCAST CLOSE

With thanks to Alan Labs, AMSAT, the ARRL, the CGC Communicator, CQ Magazine, the FCC, the Ohio Penn DX Bulletin, Radio Netherlands, Rain, the RSGB, the Southgate News and Australia's W-I-A News, that's all from the Amateur Radio Newsline(tm). Our e-mail address is newsline@arnewsline.org. More information is available at Amateur Radio Newsline's(tm) only official website located at www.arnewsline.org. You can also write to us or support us at Amateur Radio Newsline(tm), P.O. Box 660937, Arcadia, California 91066.

Before we go, a reminder of our latest on-line poll. It asks what is your favorite major U.S. ham radio magazine. You vote at www.arnewsline.org.

For now, with Bill Pasternak, WA6ITF, at the editors desk, I'm Don Wilbanks, AA4DW, saying 73 and we thank you for listening.

Amateur Radio Newsline(tm) is Copyright 2007. All rights reserved.